

Remarks/Arguments

The limitation of the composition range (55% to 75% by mass of PbO) recited in amended claim 1 is supported by the glass B in Table 1 at page 11 of the instant specification, while the limitation of the composition range (CaO being within a range of 8% to 15% by mass) recited in amended claim 9 is supported by the glass G-I in Table 3 at page 12 in the instant specification. Thus, the amendments of claims 1 and 9 do not raise new matter.

The rejection of the claims under 35 USC 103(a) as being unpatentable over Horiuchi et al, the primary reference, in view of Nishioka et al, the secondary reference, if applied to the amended claims, is respectfully traversed.

With regard to Claims 1-4, the present invention comprises a glass powder having the PbO-B₂O₃-SiO₂ based composition and a filler powder comprising at least two kinds of silica powder and alumina powder. Consequently, a barrier rib having a high strength can be manufactured with a low dielectric constant.

By contrast, Nishioka et al do not disclose the glass composition.

Horiuchi et al differ from the claimed invention in the

glass composition. More specifically, the glass recited in amended claim 1 contains 55% or higher PbO. On the other hand, the glass disclosed at page 6, lines 10-22 in Horiuchi contains 5%-50% combination of PbO, ZnO and Bi₂O₃. Therefore, it is apparent that this glass does not contain 55% or higher PbO.

Furthermore, neither the Horiuchi et al glass disclosed at page 6, lines 26-30, nor the glass disclosed at page 14, lines 11-19, contain PbO. Moreover, Horiuchi et al do not disclose the use of the combination of the α -quartz powder (or te cristobalite powder), the quartz glass powder and the alumina powder.

Accordingly, claims 1-4 are respectfully submitted to be patentable over the combined Nishioka et al and Horiuchi et al teachings.

With regards to claims 5-8, the present invention comprises a glass powder having the BaO-ZnO-B₂O₃-SiO₂ based composition and a filler powder comprising at least two kinds of silica powder and alumina powder. Consequently, a barrier rib having a high strength can be manufactured with a low dielectric constant.

By contrast, Nishioka et al do not disclose the glass composition.

Horiuchi et al differ from the claimed invention in the glass composition. Specifically, the glass recited in claim 5 contains both BaO and ZnO as essential ingredients. On the other hand, neither the Horiuchi et al glass disclosed at page 6, lines 10-22, nor the glass disclosed at page 14, lines 11-19, contains BaO. Furthermore, the glass disclosed at page 6, lines 26-30 in Horiuchi et al does not contain ZnO. Moreover, Horiuchi et al do not disclose the use of the combination of the α -quartz powder (or the cristobalite powder), the quartz glass powder and the alumina powder.

Accordingly, claims 5-8 are respectfully submitted to be patentable over the combined Nishioka et al and Horiuchi et al teachings.

With regards to claims 9-12, the present invention comprises a glass powder having the ZnO-Bi₂O₃-SiO₂ based composition and a filler powder comprising at least two kinds of silica powder and alumina powder. Consequently, a barrier rib having a high strength can be manufactured with a low dielectric constant.

By contrast, Nishioka et al do not disclose the glass composition.

Horiuchi et al differ from the claimed invention in the

glass composition. More specifically, the glass recited in claim 9 contains CaO as the essential ingredient. On the other hand, neither the Horiuchi et al glass disclosed at page 6, lines 10-22, nor the glass disclosed at page 14, lines 11-19, contains CaO. Furthermore, Horiuchi et al do not disclose the use of the combination of the α -quartz powder (or the cristobalite powder), the quartz glass powder and the alumina powder. Accordingly, claims 9-12 are respectfully submitted to be patentable over the combined Nishioka et al and Horiuchi et al teachings.

A petition for a one-month extension for filing a response is attached hereto.

Favorable reconsideration and allowance of claims 1-12 are respectfully solicited.

Respectfully submitted,

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